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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,759	0	7/08/2003	Joseph W. Schaffer	SCHA3004/FJD	6109	
23364	7590	09/12/2005		EXAMINER		
BACON &		S, PLLC	THOMPSON, JEWEL VERGIE			
625 SLATERS LANE FOURTH FLOOR				ART UNIT	PAPER NUMBER	
ALEXANDE	CIA, VA	22314		2855	·	

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
	Office Action Commons	10/614,7	59	SCHAFFER ET AL.	(fer				
	Office Action Summary	Examine	r	Art Unit					
			Thompson	2855					
Period fo	The MAILING DATE of this communica	tion appears on th	e cover sheet wit	h the correspondence addres	s				
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will, eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH 17 CFR 1.136(a). In no everation. Dry period will apply and we, by statute, cause the appropriate the approp	HIS COMMUNIC rent, however, may a re rill expire SIX (6) MON blication to become AB	CATION. ply be timely filed I'HS from the mailing date of this communication (AST). ANDONED (35 U.S.C. § 133).					
Status									
2a)⊠	Responsive to communication(s) filed of This action is FINAL . 2b) Since this application is in condition for closed in accordance with the practice	☐ This action is rallowance except	for formal matte	•	rits is				
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	Claim(s) 1-4,6 and 8 is/are pending in the state of the above claim(s) 5 and 7 is/are Claim(s) is/are allowed. Claim(s) 1-4,6 and 8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from c							
Applicati	on Papers								
	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the) accepted or by	be held in abeyan	ce. See 37 CFR 1.85(a).	.121(d).				
11)	The oath or declaration is objected to by	y the Examiner. N	ote the attached	Office Action or form PTO-1	52.				
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) 🔲 Notic 3) 🔲 Infori	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date		Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152 	?)				

Art Unit: 2855

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Vander Heyden (4,663,977).

Regarding claims 1 and 6, Vander Heyden teaches a flow meter, comprising: a primary flow sensor (1,2); sensor electronics (fig. 1) connected to the primary flow sensor for proving a measurement signal; a signal processing unit (16) connected to the sensor electronics for determining the flow, the signal processing unit (16) being set to produce a signal proportional to the flow rate or the square of the flow rate (col. 13, lines 55-58); and an output signal generator (12) for generating an output signal proportional to the signal of the signal processing unit (col. 9, lines 23-24).

Regarding claim 3, Heyden teaches the primary flow sensor includes two ultrasonic transducers (1 and 2) serving as transmitters and receivers (col. 6, lines 35-38).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vander Heyden in view of Fletcher-Haynes (5,831,175).

Regarding claims 2 and 8, Vander Heyden fails to teach a communication interface, allowing a user to set the output signal to be proportional to the flow rate or the square of the flow rate. Fletcher-Haynes teaches a flow meter equipped with a suitable data input device, a keyboard (16). It would have been obvious to one of ordinary skill in the art at the time that the invention was made to have used the keyboard of Fletcher-Haynes in the flow meter of Vander Heyden for the purpose of being supplied with user selectable constants and mode control commands (col. 8, lines 52-55, Fletcher-Haynes)

Regarding claim 4. Vander Heyden fails to explicitly teach the output signal generator comprises part of the signal-processing unit. However the signal processor (16) is part of the entire system. It would have been obvious to one of ordinary skill in that art at the time that the invention was made to have known that the generator of

Vander Heyden is a part of the signal processor for the purpose of determining the sonic velocity from the signals generated from the generator (abstract, Vander Heyden)

Response to Arguments

3. Applicant's arguments filed August 18, 2005 have been fully considered but they are not persuasive.

Applicant argues there is absolutely no teaching that the signal is proportional to the square of the flow rate

Examiner disagrees. However, what is actually claimed is "...a signal proportional to the flow rate **or** the square of the flow rate;". The cited reference teaches "...a signal proportional to the flow rate;"

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jewel V. Thompson whose telephone number is 571-272-2189. The examiner can normally be reached on 7-4:30, off alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 7, 2005

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